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Signature	Jeffren	<b>D</b> .	fulling	,				
Typed or printed name	Jeffrey D. Sulliva	n					Date	04/07/2005

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**PATENT** 



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Ticants: Awad et al.

Customer No.:

21003

Serial No.:

10/719,377

Examiner

Not yet assigned

Filed

11/21/2003

Group Art Unit:

2632

For

METHOD AND APPARATUS FOR REDUCING ECHO IN A

**COMMUNICATION SYSTEM** 

## **INFORMATION DISCLOSURE STATEMENT**

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

April 7, 2005

Date of Deposit

Jeffrey D. Sullivan

43,170

Patent Reg. No.

Attorney Name

Signature

April 7, 2005

Date of Signature

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicants bring to the attention of the Examiner the documents listed on the attached Form PTO 1449 and respectfully request that the listed documents be considered by the Examiner and made of record in the above-captioned application. Copies of all of the documents listed on the Form PTO-1449 are enclosed herewith. Additionally enclosed is a copy of an International Search Report and Written Opinion from related International Application No. PCT/CA2004/001985.



This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the listed documents are material or constitute "prior art." If the Examiner applies the documents as prior art against any claim in the application and applicants determine that the cited documents do not constitute "prior art" under United States law, applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of the documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should the documents be applied against the claims of the present application.

This Information Disclosure Statement is being filed before the mailing date of a first office action. Therefore, applicants believe no fee is due with this submission. However, if any fee is due, the Commissioner is authorized to charge any such fee or credit any overpayment, to our Deposit Account No. 02-4377.

Respectfully submitted,

BAKER BOTTS L.L.P.

Bv:

Jeffrey D. Sullivan

Patent Office Reg. No. 43,170

30 Rockefeller Plaza

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New York, NY 10012-4498

Attorney for Applicants

212-408-2500

PTO/SB/08A (08-03)

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& TRAD Substitute for form 1449/PTO

Sheet

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 12

Complete il Known				
Application Number	10/719,377			
Filing Date	11/21/2003			
First Named Inventor	Awad et al.			
Art Unit	2632			
Examiner Name	Not yet assigned			
Attorney Docket Number	A36088 (071235 0121)			

Complete if Known

	U. S. PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (d known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear			
	1	US- 6804203 B1	10-12-2004	Benyassine et al.	узгог грос			
	2	<sup>US-</sup> 0562102	10-29-1991	Taguchi				
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Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	1
	3	CA 2004379	06-01-1990	Taguchi		Γ
	4	CA 2437477	02-16-2004	Abutalebi et al		T
	5	EP 1071225	01-24-2001	Tasaki		
	<u> </u>					

Examiner	Date	
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Signature	Considered	
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Substitute for form 1449/PTO		Complete if Known			
		Application Number	10/719,377		
INFORMATION DISC		Filing Date	11/21/2003		
STATEMENT BY APP	PLICANT	First Named Inventor	Awad et al.		
(Use as many sheets as neces	ssarv)	Art Unit	2632		
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Sheet 2 of 2		Attorney Docket Number	A36088 (071235.0121)		

	,	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	6	Ezzaidi et al., "A New Algorithm for Double Talk Detection and Separation in the COntext of Digital Mobile Radio Telephone," 1997 IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP-97, vol. 3, 21-24, April 1997	
	7	Asharif et al., "Correlation LMS Algorithm and its Application to Double-talk Echo Cancelling," Electronics Letters, vol. 35, issue 3, pp. 194-195, February 4, 1999	

Examiner	Date
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Signature	Considered
	Considered

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